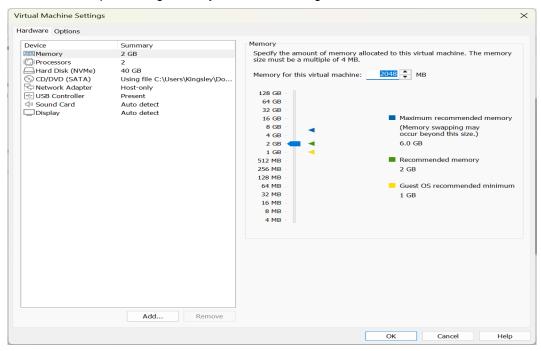
Active Directory Homelab Portfolio

Author: Kingsley Otoo

This portfolio documents my hands-on implementation of an Active Directory (AD) homelab. The environment was deployed using VMware Workstation and configured as a Windows Server 2022 Domain Controller. It demonstrates essential AD administration tasks, automation with PowerShell, and security configurations.

VM Setup & Configuration

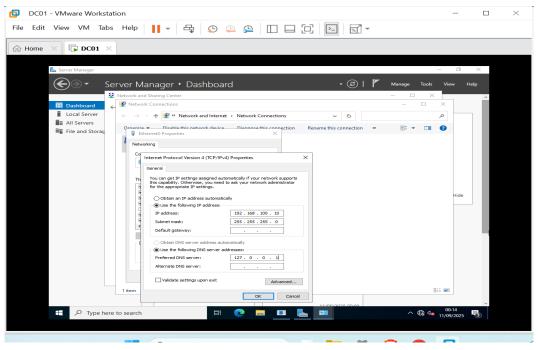
Virtual machine setup including memory, CPU, and storage allocation.



VM Settings Summary

Static IP Configuration

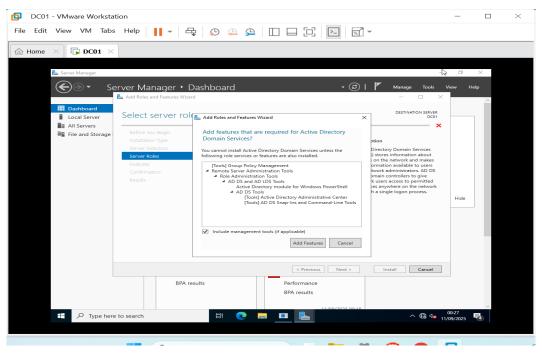
Configured static IP and DNS settings for reliable domain resolution.



Static IP Configuration

Active Directory Installation

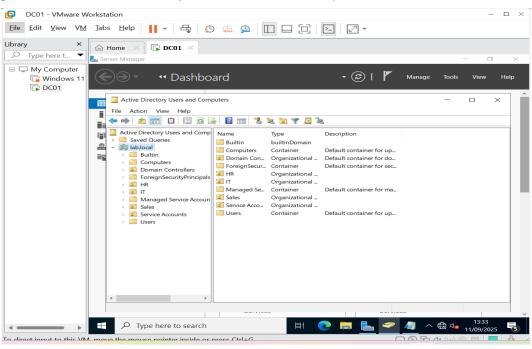
Installed Active Directory Domain Services (AD DS) and promoted the server to a Domain Controller.



Active Directory Installation

Organizational Unit (OU) Structure

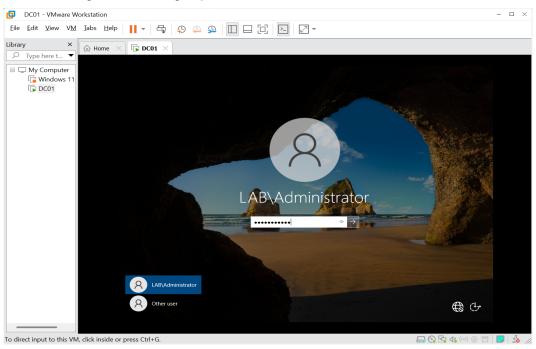
Designed a structured OU hierarchy for HR, IT, and Sales departments.



OU Structure

Active Directory Users & Computers

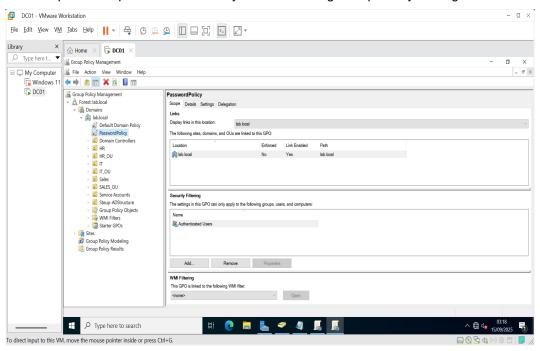
Created and managed users and groups via ADUC.



Active Directory Users & Computers

Group Policy (GPO) Configuration

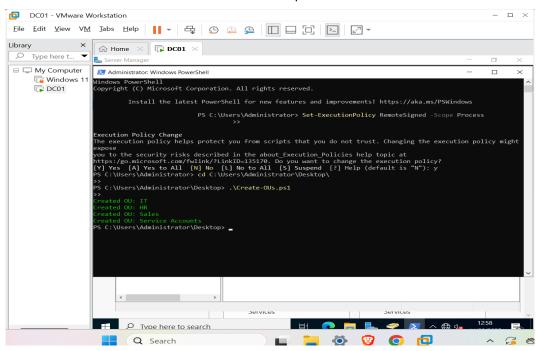
Implemented password policies and security baselines using Group Policy Management.



GPO Password Policy

PowerShell Automation

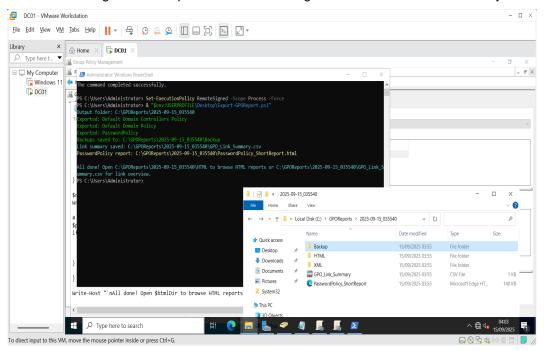
Automated OU and user creation with PowerShell scripts.



PowerShell OU Automation

Backup & Reporting

Exported GPOs and generated reports to validate configuration and for disaster recovery.



Backup & GPO Report